

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/123,365 A  
Source: IFW0  
Date Processed by STIC: 7/27/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand-Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,  
Room 1B03, Arlington, VA 22202



IFWO

## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

4 <110> APPLICANT: van den Boom, Dirk  
 5 Bocker, Sebastian  
 7 <120> TITLE OF INVENTION: FRAGMENTATION-BASED METHODS AND SYSTEMS  
 8 FOR SEQUENCE VARIATION DETECTION AND DISCOVERY  
 11 <130> FILE REFERENCE: 24736-2073  
 13 <140> CURRENT APPLICATION NUMBER: 10/723,365A  
 14 <141> CURRENT FILING DATE: 2003-11-26  
 16 <150> PRIOR APPLICATION NUMBER: US 60/429,895  
 17 <151> PRIOR FILING DATE: 2002-11-27  
 19 <160> NUMBER OF SEQ ID NOS: 85  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 7  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Renin cleavage site  
 31 <400> SEQUENCE: 1  
 32 Pro Phe His Leu Leu Val Tyr  
 33 1 5  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 5  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Artificial Sequence  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: Factor Xa cleavage site  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: VARIANT  
 46 <222> LOCATION: 5  
 47 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg  
 49 <400> SEQUENCE: 2  
 W--> 50 Ile Glu Gly Arg Xaa  
 51 1 5  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 5  
 56 <212> TYPE: PRT  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Factor Xa cleavage site  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: VARIANT  
 64 <222> LOCATION: 5  
 65 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg

Does Not Comply  
 Corrected Diskette Needed  
 (pg. 3)

(pg. 6)

## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

67 &lt;400&gt; SEQUENCE: 3

W--&gt; 68 Ile Asp Gly Arg Xaa

69 1 5

72 &lt;210&gt; SEQ ID NO: 4

73 &lt;211&gt; LENGTH: 5

74 &lt;212&gt; TYPE: PRT

75 &lt;213&gt; ORGANISM: Artificial Sequence

77 &lt;220&gt; FEATURE:

78 &lt;223&gt; OTHER INFORMATION: Factor Xa cleavage site

80 &lt;220&gt; FEATURE:

81 &lt;221&gt; NAME/KEY: VARIANT

82 &lt;222&gt; LOCATION: 5

83 &lt;223&gt; OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg

85 &lt;400&gt; SEQUENCE: 4

W--&gt; 86 Ala Glu Gly Arg Xaa

87 1 5

90 &lt;210&gt; SEQ ID NO: 5

91 &lt;211&gt; LENGTH: 5

92 &lt;212&gt; TYPE: PRT

93 &lt;213&gt; ORGANISM: Artificial Sequence

95 &lt;220&gt; FEATURE:

96 &lt;223&gt; OTHER INFORMATION: Collagenase cleavage site

98 &lt;220&gt; FEATURE:

99 &lt;221&gt; NAME/KEY: VARIANT

100 &lt;222&gt; LOCATION: 2, 5

101 &lt;223&gt; OTHER INFORMATION: Xaa = Any Amino Acid

103 &lt;400&gt; SEQUENCE: 5

W--&gt; 104 Pro Xaa Gly Pro Xaa

105 1 5

108 &lt;210&gt; SEQ ID NO: 6

109 &lt;211&gt; LENGTH: 49

110 &lt;212&gt; TYPE: DNA

111 &lt;213&gt; ORGANISM: Artificial Sequence

113 &lt;220&gt; FEATURE:

114 &lt;223&gt; OTHER INFORMATION: Forward primer for base-specific cleavage

116 &lt;400&gt; SEQUENCE: 6

117 cagtaatacg actcactata gggagaaggc tccccagcaa gacggactt 49

119 &lt;210&gt; SEQ ID NO: 7

120 &lt;211&gt; LENGTH: 28

121 &lt;212&gt; TYPE: DNA

122 &lt;213&gt; ORGANISM: Artificial Sequence

124 &lt;220&gt; FEATURE:

125 &lt;223&gt; OTHER INFORMATION: Reverse primer for base-specific cleavage

127 &lt;400&gt; SEQUENCE: 7

128 aggaagagag cgcctcggca aagtacac 28

130 &lt;210&gt; SEQ ID NO: 8

131 &lt;211&gt; LENGTH: 340

132 &lt;212&gt; TYPE: DNA

133 &lt;213&gt; ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

135 <220> FEATURE:  
 136 <223> OTHER INFORMATION: Amplicon for base-specific cleavage  
 138 <400> SEQUENCE: 8  
 139 gggagaaggc tccccagcaa gacggacttc ttcaaaaaca tcatgaactt catagacatt 60  
 140 gtggccatca ttccttattt catcacgctg ggcaccgaga tagctgagca ggaaggaaac 120  
 141 cagaagggcg agcaggccac ctccctggcc atcctcaggg tcatccgctt ggtaagggtt 180  
 142 tttagaatct tcaagctctc ccgccactct aagggcctcc agatcctggg ccagaccctc 240  
 143 aaagctagta tgagagagct agggctgctc atctttttcc tcttcacggtt gggtcaccctg 300  
 144 ttttctagtg cagtgtactt tgccgaggcg ctctcttctc 340  
 146 <210> SEQ ID NO: 9  
 147 <211> LENGTH: 23  
 148 <212> TYPE: DNA  
 149 <213> ORGANISM: Artificial Sequence  
 151 <220> FEATURE:  
 152 <223> OTHER INFORMATION: Forward primer for partial cleavage  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: modified\_base  
 156 <222> LOCATION: 1  
 157 <223> OTHER INFORMATION: Biotinylated  
 159 <400> SEQUENCE: 9  
 160 cccagtcacg acgttgtaaa acg 23  
 162 <210> SEQ ID NO: 10  
 163 <211> LENGTH: 23  
 164 <212> TYPE: DNA  
 165 <213> ORGANISM: Artificial Sequence  
 167 <220> FEATURE:  
 168 <223> OTHER INFORMATION: Reverse primer for partial cleavage  
 170 <400> SEQUENCE: 10  
 171 agcggataac aatttcacac agg 23  
 173 <210> SEQ ID NO: 11  
 174 <211> LENGTH: 117  
 175 <212> TYPE: DNA  
 176 <213> ORGANISM: Artificial Sequence  
 178 <220> FEATURE:  
 179 <223> OTHER INFORMATION: Amplicon for partial cleavage  
 181 <400> SEQUENCE: 11  
 182 cccagtcacg acgttgtaaa acgtccaggg aggactcacc atgggcattt gattgcagag 60  
 183 cagctccgag tccatccaga gcttctgca gtcacctgtg tgaaattggt atccgct 117  
 185 <210> SEQ ID NO: 12  
 186 <211> LENGTH: 21  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: Artificial Sequence  
 190 <220> FEATURE:  
 191 <223> OTHER INFORMATION: Reference sequence  
 193 <220> FEATURE:  
 194 <221> NAME/KEY: misc\_feature  
 195 <222> LOCATION: 11  
 196 <223> OTHER INFORMATION: n = C or A  
 198 <220> FEATURE:

What is the source of genetic material?  
 Invalid Response

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

```

199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: 1, 2, 3, 8, 9, 10, 12, 13, 14, 19, 20, 21
201 <223> OTHER INFORMATION: n = A,T,C or G
203 <400> SEQUENCE: 12
W--> 204 nnnactgnnn nnnntgacnn n 21
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 583
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: CETP Amplicon
214 <400> SEQUENCE: 13
215 cttcagtgt caccgcgacc ctatgagtgg ggcgggtcaaa ctgtcccccatt tttacacaca 60
216 gggaaaactta gtgaatggca aggctggggtt tgagcccagc tctattgccc ccaaagataa 120
217 ggctccattc cctgctccat ttcccaggca tagggacttg tagggggctg gaaccccagg 180
218 atcaactctg ggctcagagg gcccagcaa taagtgactg ttgattactc ctgatcccaa 240
219 agctgacttc aggcaagctc cttggagggtc gcagcccctt cttgctatgc ccagtggcaa 300
220 tgatgttcat aatcccactc ctcagtgcag ggttccacta agaaccctat atctcctacc 360
221 tcaaattggac ctcatgcttt ctgagtaagc ctccctcagc tttctgggtc cctcactccc 420
222 cccaccact gcaatgactt cttcaggcct tccctgccat cctcaaactc ccagtgtccc 480
223 cctcctgtct accttccact tccctctcca cacacaacct gcttaccaga gagctgagca 540
224 gagccaccaa cagaacttcc cccccacgtc gctgtctcca gtc 583
226 <210> SEQ ID NO: 14
227 <211> LENGTH: 483
228 <212> TYPE: DNA
229 <213> ORGANISM: Mycobacterium abscessus
231 <300> PUBLICATION INFORMATION:
232 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536038
233 <309> DATABASE ENTRY DATE: 2003-01-03
235 <400> SEQUENCE: 14
236 acgggtgagt aacacgtggg tgatctgccc tgcactctgg gataagcctg ggaaactggg 60
237 tctaataaccg gataggacca cacacttcat ggtgagtggg gcaaagcttt tgcggtgtgg 120
238 gatgagcccg cggcctatca gcttggttggg ggggtaatgg cccaccaagg cgacgacggg 180
239 tagccggcct gagaggggtga ccggccacac tgggactgag atacggccca gactcctacg 240
240 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgcccgtg 300
241 agggatgacg gccttcgggt tgtaaacctc tttcagtagg gacgaagcga aagtgtacgg 360
242 acctacagaa gaaggaccgg ccaactacgt gccagcagcc gcggtataac gttaggggtccg 420
243 agcgttggtc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
244 aaa 483
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 495
248 <212> TYPE: DNA
249 <213> ORGANISM: Mycobacterium avium
251 <300> PUBLICATION INFORMATION:
252 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536037
253 <309> DATABASE ENTRY DATE: 2003-01-03
255 <400> SEQUENCE: 15
256 acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60
257 tctaataaccg gataggacct caagacgcgt gtcttctggg ggaaagcttt tgcggtgtgg 120

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## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

```

258 gatgggcccg cggcctatca gcttggttggg ggggtgacgg cctaccaagg cgacgacggg 180
259 tagccggcct gagaggggtgt cgggccacac tgggactgag atacggccca gactcctacg 240
260 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
261 ggggatgacg gccttcgggt tgtaaaccctc tttcaccatc gacgaaggctc cgggttttct 360
262 cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
263 acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
264 gcgttggttcg tgaaa 495

```

266 &lt;210&gt; SEQ ID NO: 16

267 &lt;211&gt; LENGTH: 495

268 &lt;212&gt; TYPE: DNA

269 &lt;213&gt; ORGANISM: Mycobacterium celatum

271 &lt;300&gt; PUBLICATION INFORMATION:

272 &lt;308&gt; DATABASE ACCESSION NO: EMBL Accession No. AJ536040

273 &lt;309&gt; DATABASE ENTRY DATE: 2003-01-03

275 &lt;400&gt; SEQUENCE: 16

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276 acgggtgagt aacacgtggg tgatctgccc tgcacttcgg gataagcttg ggaaactggg 60
277 tctaataccg gataggacca tgggatgcat gtcttggtgg ggaaagcttt tgcggtgtgg 120
278 gatgggcccg cggcctatca gcttggttggg ggggtgatgg cctaccaagg cgacgacggg 180
279 tagccggcct gagaggggtgt cgggccacac tgggactgag atacggccca gactcctacg 240
280 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
281 ggggatgacg gccttcgggt tgtaaaccctc tttcaccatc gacgaagctg ccggttttcc 360
282 ggtggtgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
283 acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
284 gcgttggttcg tgaaa 495

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286 &lt;210&gt; SEQ ID NO: 17

287 &lt;211&gt; LENGTH: 483

288 &lt;212&gt; TYPE: DNA

289 &lt;213&gt; ORGANISM: Mycobacterium fortuitum

291 &lt;300&gt; PUBLICATION INFORMATION:

292 &lt;308&gt; DATABASE ACCESSION NO: EMBL Accession No. AJ536039

293 &lt;309&gt; DATABASE ENTRY DATE: 2003-01-03

295 &lt;400&gt; SEQUENCE: 17

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296 acgggtgagt aacacgtggg tgatctgccc tgcactttgg gataagcctg ggaaactggg 60
297 tctaataccg aatatgacca cgcgcttcat ggtgtgtggg ggaaagcttt tgcggtgtgg 120
298 gatgggcccg cggcctatca gcttggttggg ggggtaattg cctaccaagg cgacgacggg 180
299 tagccggcct gagaggggtga ccggccacac tgggactgag atacggccca gactcctacg 240
300 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
301 agggatgacg gccttcgggt tgtaaaccctc tttcaatagg gacgaagcgc aagtgcgggt 360
302 acctatagaa gaaggaccgg ccaactacgt gccagcagcc gcggtaatat gtaggggtccg 420
303 agcgttgtcc ggaattactg ggcgtaaaaga gctcgtagggt ggtttgtcgc gttgttcgtg 480
304 aaa 483

```

306 &lt;210&gt; SEQ ID NO: 18

307 &lt;211&gt; LENGTH: 495

308 &lt;212&gt; TYPE: DNA

309 &lt;213&gt; ORGANISM: Mycobacterium gordonae

311 &lt;300&gt; PUBLICATION INFORMATION:

312 &lt;308&gt; DATABASE ACCESSION NO: EMBL Accession No. AJ536042

313 &lt;309&gt; DATABASE ENTRY DATE: 2003-01-03

315 &lt;400&gt; SEQUENCE: 18

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/723,365ADATE: 07/27/2004  
TIME: 11:58:59Input Set : A:\2073seq.002  
Output Set: N:\CRF4\07272004\J723365A.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 5  
Seq#:3; Xaa Pos. 5  
Seq#:4; Xaa Pos. 5  
Seq#:5; Xaa Pos. 2,5  
Seq#:12; N Pos. 1,2,3,8,9,10,11,12,13,14,19,20,21  
Seq#:32; N Pos. 821  
Seq#:45; N Pos. 123  
Seq#:46; N Pos. 174,179,317  
Seq#:47; N Pos. 285,286  
Seq#:48; N Pos. 131  
Seq#:49; N Pos. 47,50,51,52,111,135,185,198,253,359  
Seq#:50; N Pos. 131  
Seq#:51; N Pos. 228,230,235,236,240,243,245  
Seq#:52; N Pos. 84,265,269  
Seq#:53; N Pos. 136,385  
Seq#:54; N Pos. 76  
Seq#:55; N Pos. 157  
Seq#:56; N Pos. 103  
Seq#:57; N Pos. 31  
Seq#:58; N Pos. 211  
Seq#:59; N Pos. 77  
Seq#:60; N Pos. 131,239,254,283  
Seq#:61; N Pos. 100  
Seq#:62; N Pos. 228,341  
Seq#:63; N Pos. 300,696,741,771  
Seq#:64; N Pos. 378  
Seq#:65; N Pos. 137  
Seq#:66; N Pos. 249  
Seq#:67; N Pos. 80,206,295,315,317,318,373,400,479  
Seq#:68; N Pos. 48,154  
Seq#:69; N Pos. 205,277,304  
Seq#:70; N Pos. 117  
Seq#:71; N Pos. 37,329,350  
Seq#:72; N Pos. 653  
Seq#:73; N Pos. 257  
Seq#:74; N Pos. 98,114  
Seq#:75; N Pos. 21,61,83,84,85,86  
Seq#:78; N Pos. 183,256,284,327  
Seq#:79; N Pos. 279  
Seq#:80; N Pos. 44  
Seq#:81; N Pos. 346  
Seq#:82; N Pos. 291  
Seq#:83; N Pos. 260  
Seq#:84; N Pos. 257

## VERIFICATION SUMMARY

DATE: 07/27/2004

PATENT APPLICATION: US/10/723,365A

TIME: 11:58:59

Input Set : A:\2073seq.002

Output Set : N:\CRF4\07272004\J723365A.raw

L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:780  
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:120  
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:120  
L:821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:300  
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:240  
L:864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:120  
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:60  
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180  
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240  
L:905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300  
L:926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120  
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180  
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240  
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60  
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:240  
L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:120  
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:360  
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:60  
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120  
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:60  
L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:180  
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60  
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:120  
L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:180  
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:240  
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:60  
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:180  
L:1229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:300  
L:1261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:240  
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:660  
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:720  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:360  
L:1312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:120  
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:240  
L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:60  
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:180  
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:240  
L:1363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:300  
L:1364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:360  
L:1365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:420

## VERIFICATION SUMMARY

DATE: 07/27/2004

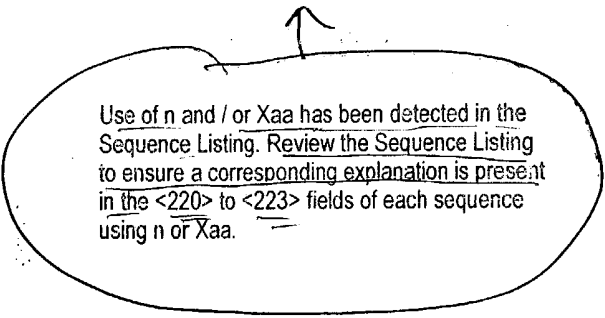
PATENT APPLICATION: US/10/723,365A

TIME: 11:58:59

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120  
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180  
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:240  
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300  
L:1443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:60  
L:1474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0  
L:1479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:300  
L:1506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:600  
L:1527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240  
L:1556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:60  
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0  
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:60  
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:180  
L:1646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:240  
L:1647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:300  
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240  
L:1685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0  
L:1712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:300  
L:1723 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1727 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:82  
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:240  
L:1754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:240  
L:1776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:240



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.